System Manual

Model Name:
AP-3617

Document Version: I

Customer	Date	FEC Prepared by	Date
Checked & Approved by		FEC Approved by	

AerPOS

User's Manual

Version 0.1

AP-3617
17” Bezel Free Performance POS Terminal

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Record of Revision

Date	Specs Ver.	Description	Note
2013/10/17	V0.1	Initial	Julie

Safety and Warranty

1. Read these safety instructions carefully.

2. Keep this user's manual for later reference.

3. Disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.

4. For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.

5. Keep this equipment away from humidity.

6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.

7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.

8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.

9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.

10. All cautions and warnings on the equipment should be noted.

11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.

12. Never pour any liquid into an opening. This could cause fire or electrical shock.

13. Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.

14. If any of the following situations arises, get the equipment checked by service personnel:
a. The power cord or plug is damaged.
b. Liquid has penetrated into the equipment.
c. The equipment has been exposed to moisture.
d. The equipment does not work well, or you cannot get it to work according to the user’s manual.
e. The equipment has been dropped and damaged.
f. The equipment has obvious signs of breakage.

15. DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20° C (-4°F) OR ABOVE 60° C (140° F). IT MAY DAMAGE THE EQUIPMENT.

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Chapter 1

Introduction

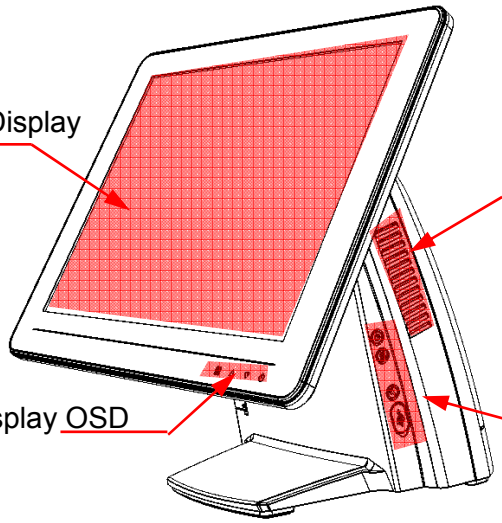
AerPOS (AP-3617) Introduction

AerPOS is the perfect combination of reducing the Total Cost Ownership and enhanced quality requirement for POS system. With the design base on quality, space-effective and performance, its modularized design helps user no matter on the maintenance but the further upgrade in a very easy way.

Main Features:

- The high quality of resistive touch or durable tempered glass of projective capacitive touch both are IP65 front panel compliant.
- Desktop solution with high performance is perfect for heavy loading environment. Mobile platform aims for green and energy saving requirement
- Modularized design and easy maintenance for the key parts of its system, such as storage device, CPU module and touch display.
- With various devices support and sufficient I/O connectivity requirements.
- Integrated VFD and the 2nd 17” / 11.6” LCD display.

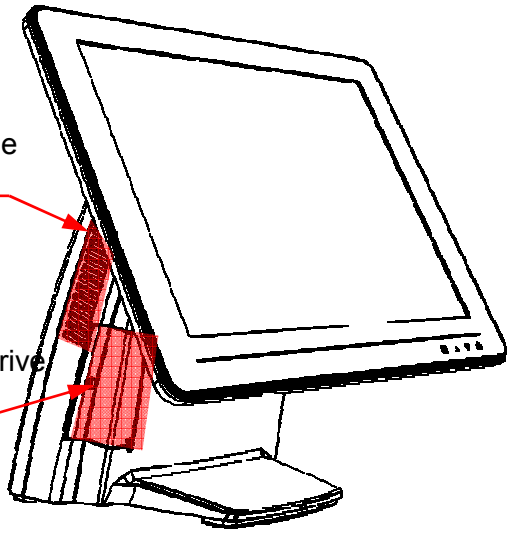
A Quick Tour for AP-3617



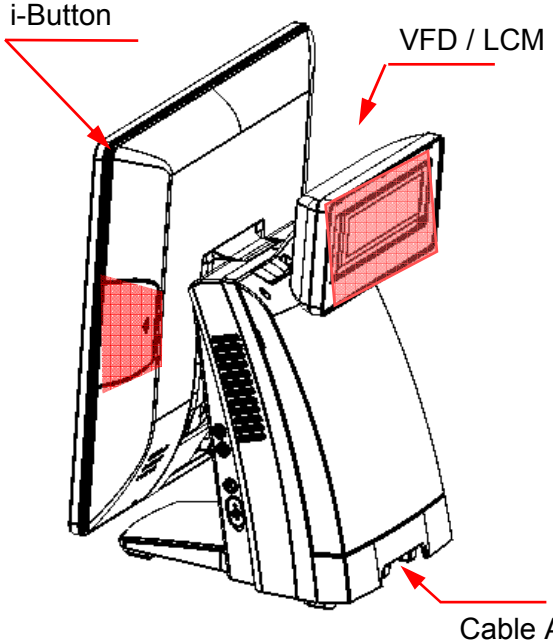
Power Switch / Status
Blue LED: Power ON
Red LED: Power Off / Standby

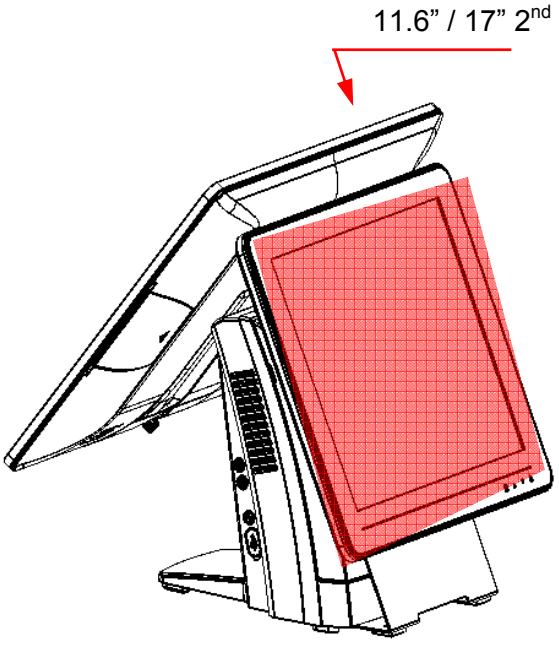
HDD / SATA Status
Orange LED: Operation

Smart Management
Connection button

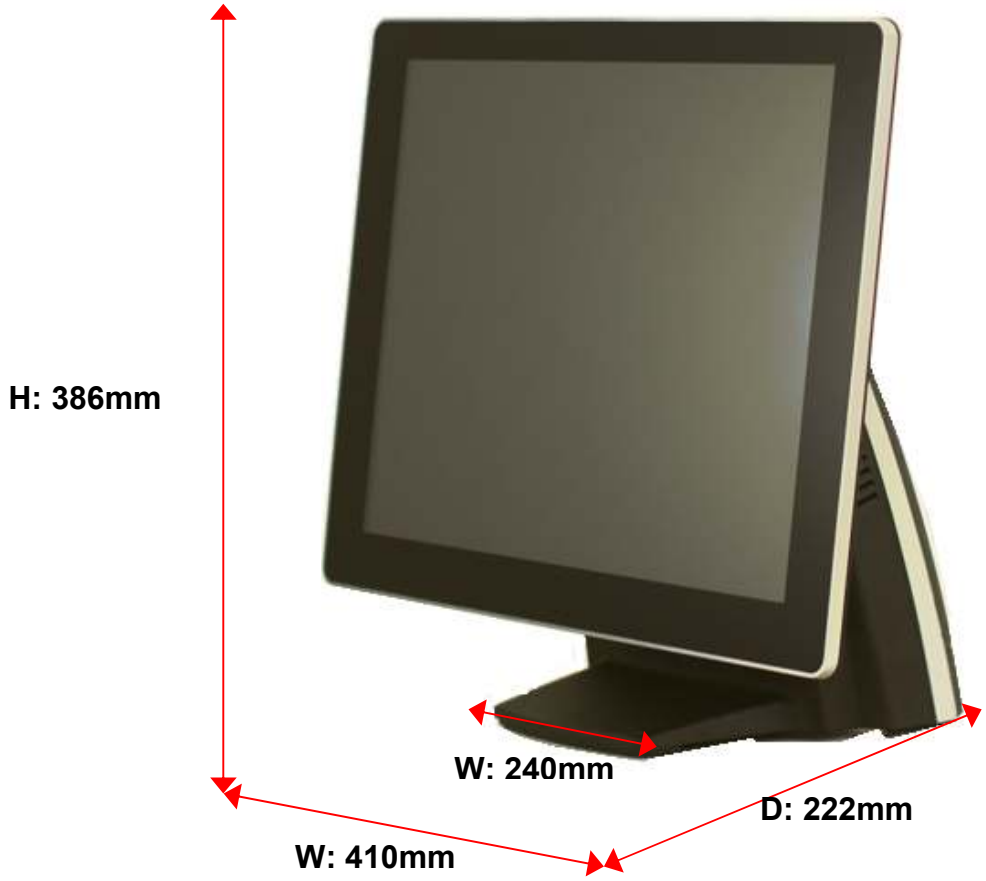


MSR
Finger Print Receiver
RFID
i-Button

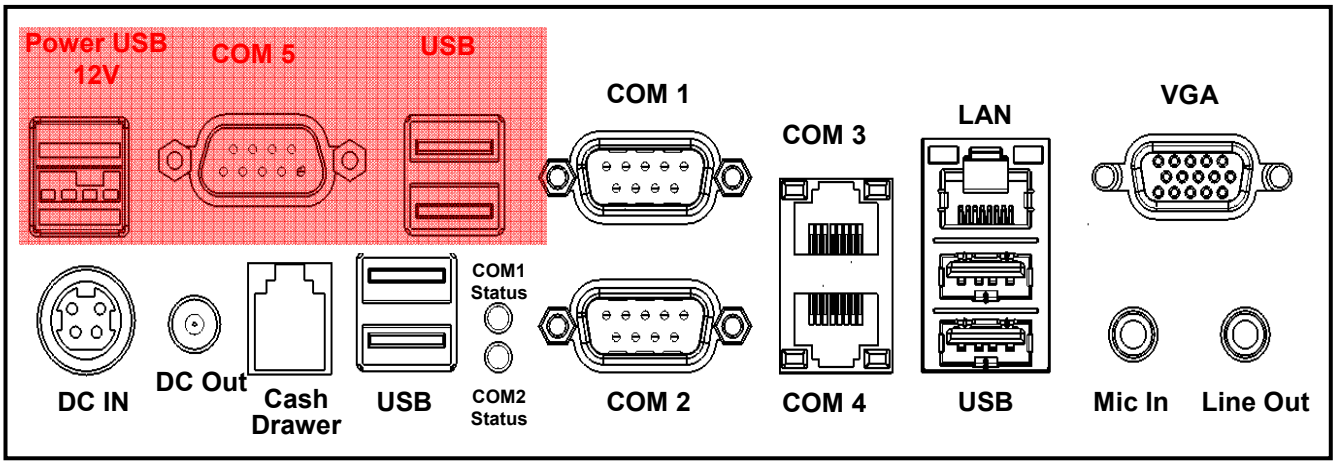




AP-3617 Dimension

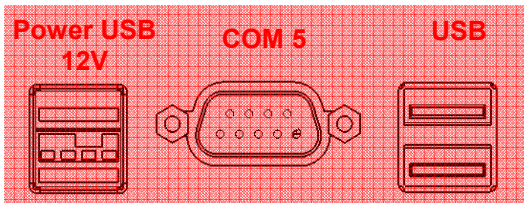


Rear I/O Panel Connectivity

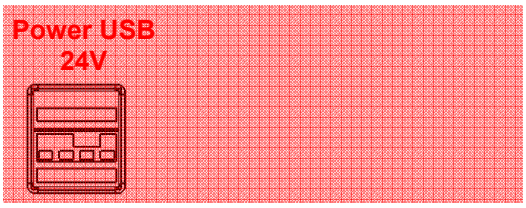


Optional Second IO

Type A



Type B



I/O Port	Connector Type	Description
VGA	D-sub 15	Connect 2nd LCD screen or CRT monitors
Line Out	Earphone connector	Connect speakers to this port
Mic In	Microphone Connector	Connect microphone to this port
LAN	RJ-45	Connect to Ethernet
USB	A type USB	Connect to standard A type USB devices
COM 3	RJ-45	Serial port COM 3—simple COM RI—NA LED ; 5V—Green Light ; 12V – Orange Light
COM 4	RJ-45	Serial port COM 4 RI—NA LED ; 5V—Green Light ; 12V – Orange Light
COM 1	D-sub9	Serial Port COM 1
COM 2	D-sub9	Serial Port COM 2
COM Status	LED	RI—NA LED ; 5V—Green Light ; 12V – Orange Light
USB	A type USB	Connect to standard A type USB devices
Cash Drawer	RJ-11	Connect to 12V Cash Drawer
DC out	DC out connector	12V DC out put connect to 12V peripherals or devices
DC IN	DC IN connector	Connect the 12V power adaptor to this port

I/O Port	Connector Type	Description
Optional Second IO Board is only available as pre-installed in FEC factory		
Type A		
Power USB	Power USB 12V (optional)	Connect to standard A type USB devices with 12V Power Supply
COM 5	D-sub9 (optional)	Serial Port COM
USB	A type USB (optional)	Connect to standard A type USB devices
Type B		
Power USB	Power USB 24V (optional)	Connect to standard A type USB devices with 24V Power Supply

Before you unplug the power USB cable from I/O panel, please ensure unplug the A/C Cord in advanced.

Aer POS AP-3617 Packing List

Standard		Optional & Peripherals	
1	17” AP-3617 AerPOS Touch Terminal	1	Optional IO Board
2	12V 150W Power Adaptor	2	RJ-45 to D-sub9 Convert Cable
3	AC Power Cable	3	MSR / RFID / Finger Print Receiver / I-Button
		4	20x2 VFD / 20x2 LCM / 240x64 LCM
		5	17” / 11.6” 2nd Display Bracket
		6	Wireless Lan Module

Chapter 2

Hardware Installation and Upgrading

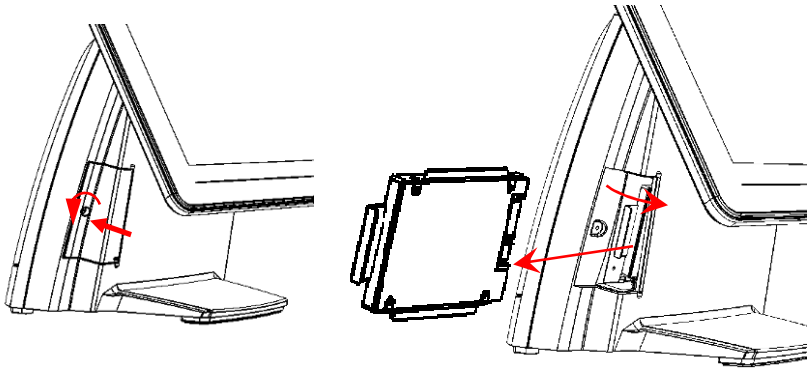
Do not remove the Display Module without switch off the terminal. Power must be switched off and power cord must be unplugged. Every time you service the system, please be aware of this.

2.5” Hard Disk Drive Installation

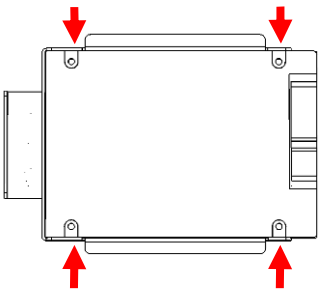
1. **Turn off power and remove power cord from the terminal**

2. **Unscrew the maintenance door at the front side of the terminal body**
3. **Flip the maintenance door and Extract 2.5” SATA storage bracket out**

   (no cable connected)



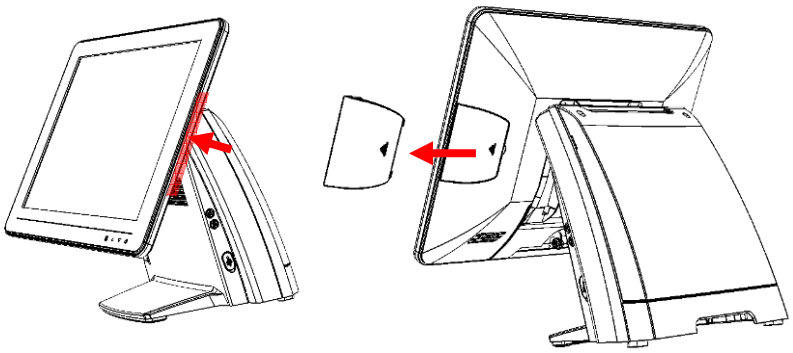
4. **Place storage driver on the bracket and fasten it with 4 screws.**



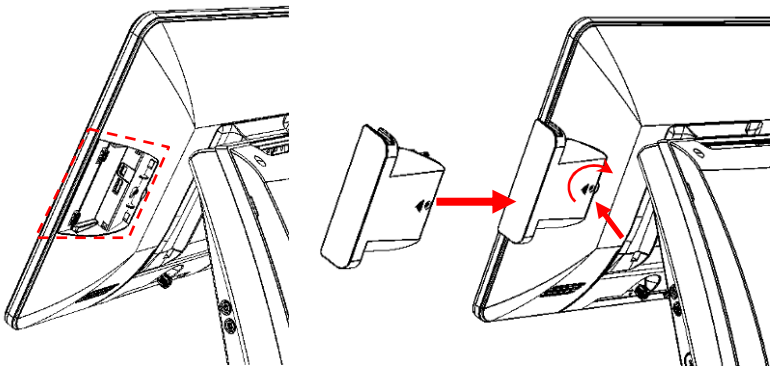
5. **Restore the maintenance door to the system.**
6. **Fix the maintenance door with a screw.**
7. **Connect power cord to the system.**

MSR / Finger Print Reciever / RFID / iButton Installation

1. **Remove the plastic cover at the back of Touch Display Module**



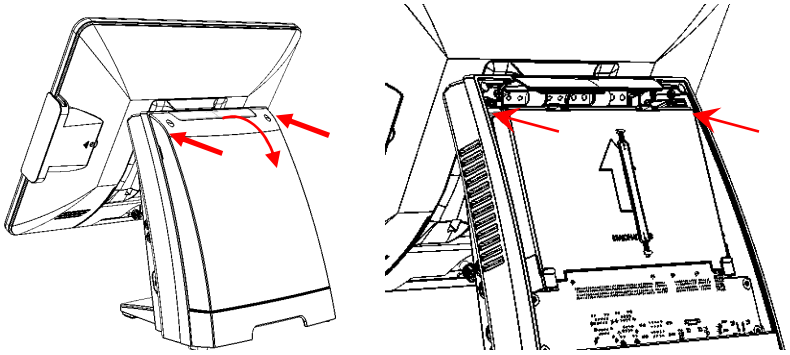
2. **Insert the MSR / RFID / Finger Print Receiver / I-button Module into USB A-Type Connector. Fix the Touch Display Module with one screw.**



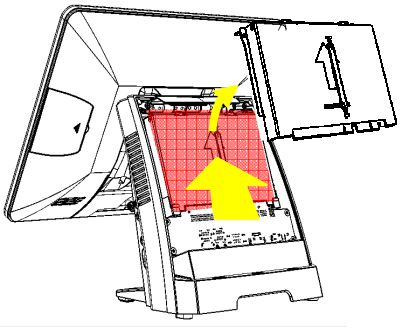
3. **Make sure the USB connected and screw is fastened well.**
4. **If you are looking for the detail Utility of MCR, Finger Print Reader, I-button Reader, RFID Reader, please contact FEC's FAE.(Please refer to FEC website for more information, http://www.fecpos.com)**

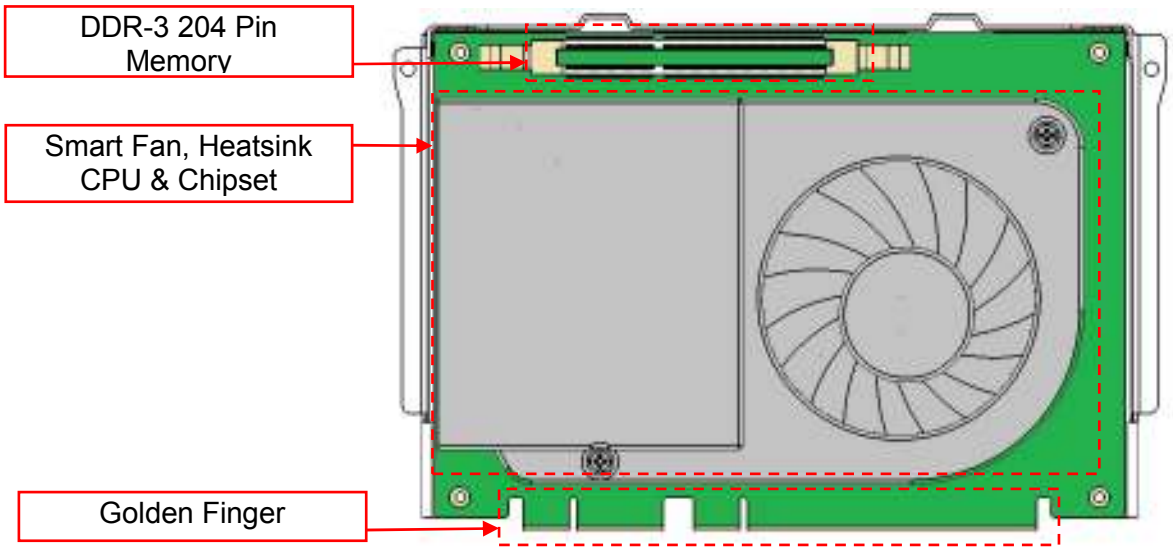
MB / Heatsink & Smart Fan / Memory Installation

1. **Remove back cover of the terminal by two screws on the top side.**
2. **Anther two screws at the both side of MB Module should be removed for the further disassembly.**

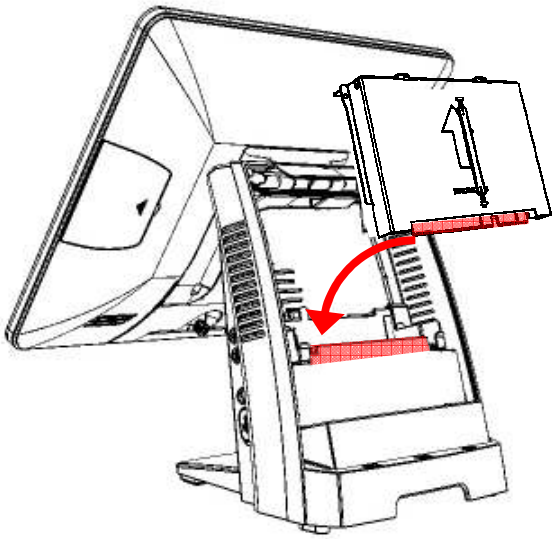


3. **Lift up and Pull out the MB Module from the Terminal Chassis.**



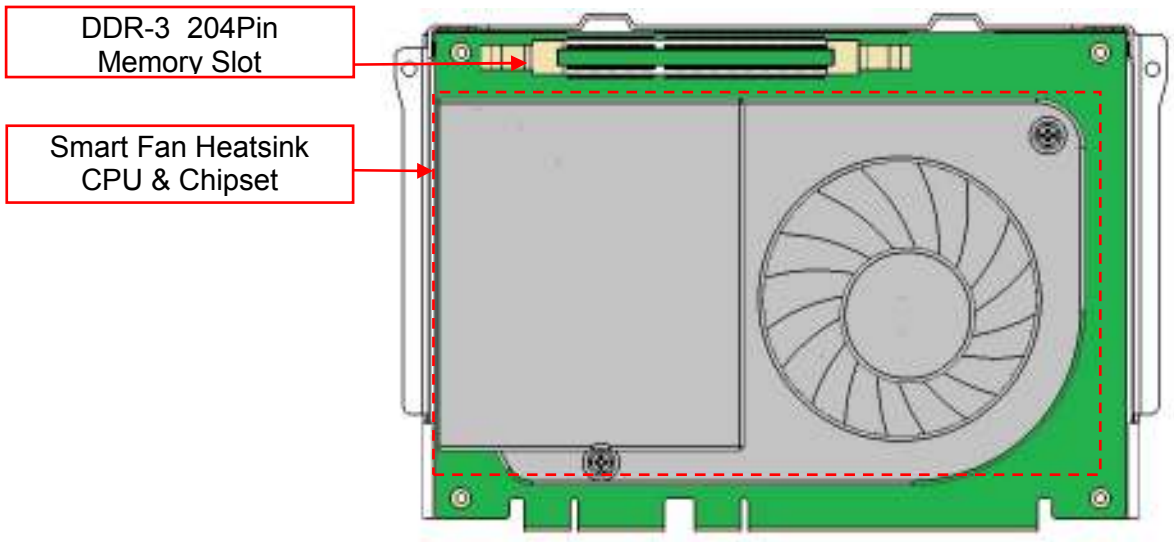


4. **During the MB installation, Please Make sure the MB Golden finger is well connected with IO Board Slot.**



Memory (DDRIII RAM) & CPU Installation / MB Pin Define, Battery and Clear CMOS Setting

1. **Disassembly the MB Module, then Memory installation can be done from the top side of MB Module. CPU installation has to remove Thermal Fan Module by 2 screws, after the CPU installation, please ensure the thermal pads between CPU, chipset and heatsink are well contacted.**

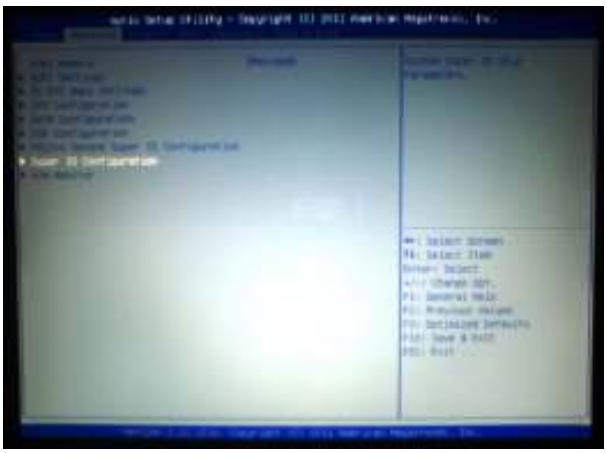
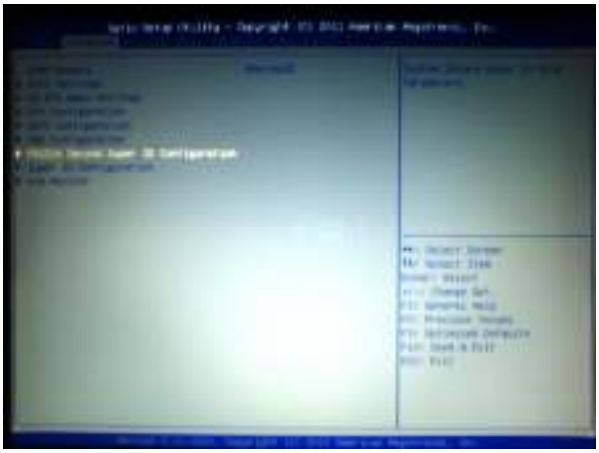


2. **According to the MB on-board connectors or golden finger pin define and Battery Setting, CMOS Clear, please refer to the FH-H611 MB Manual. (Will update soon)**

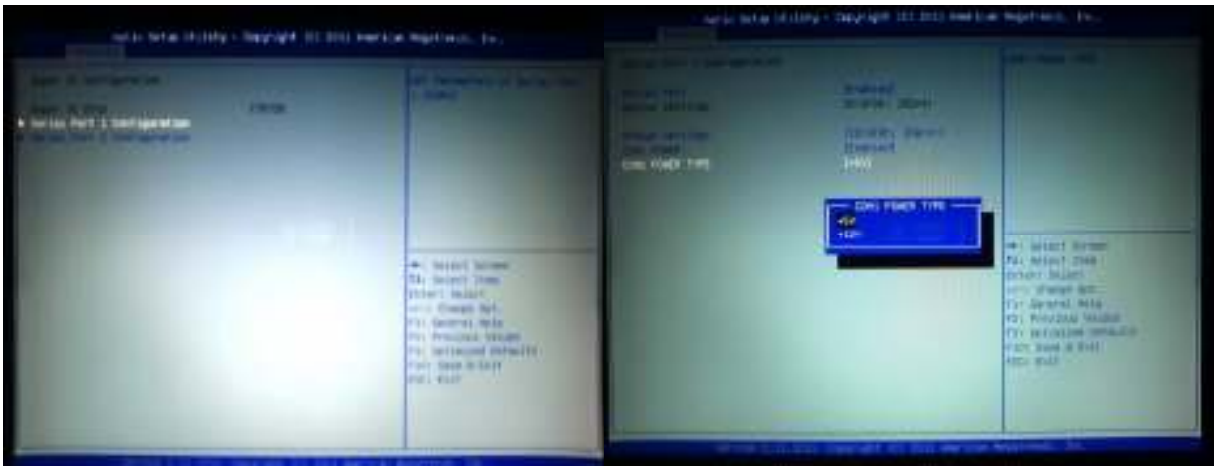
COM Port Power Setting

AP-3617 COM Port Power can adjust via BIOS or Smart Management Tool.

5. **COM Port Power Configuration:**
6. **Advance > Super IO Configuration > Serial Port 1 or 2 Configuration**
   Advance > F81214 Super IO Configuration > Serial Port 3 or 4 Configuration

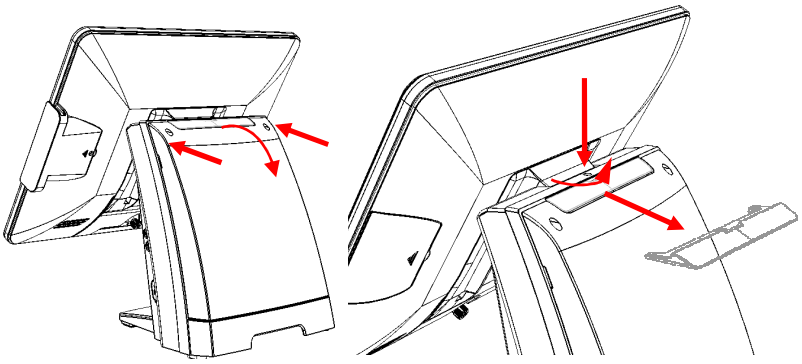
7. **COM 1 or 2 or 3 or 4 Port Power > Enable**
   COM 1 or 2 or 3 or 4 Power Type > +5V or +12V (select the proper power output for proper com port devices)



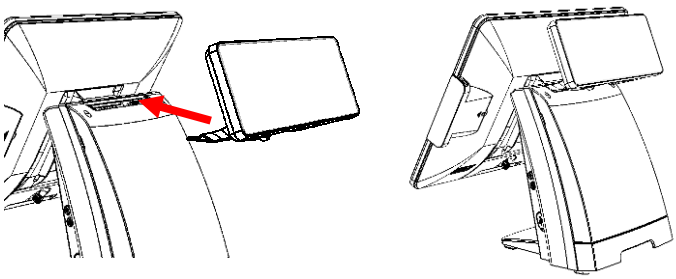
If you need more information about the BIOS setting or Smart Management Setting, please refer to the MB Manual or Smart Management Manual or contact FEC's FAE.

Integrated VFD / LCM Installation

1. **Remove the VFD Plastic cover from the terminal**



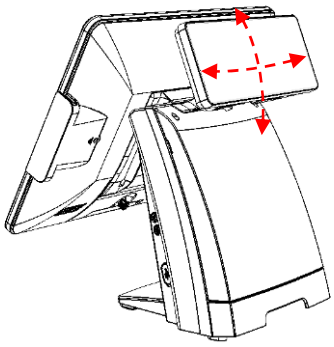
2. **Connect the COM 3 internal cable between Terminal and VFD / LCM Module and install the VFD/ LCM module with Terminal. Fasten one screw back and make sure VFD/LCM module is fixed.**



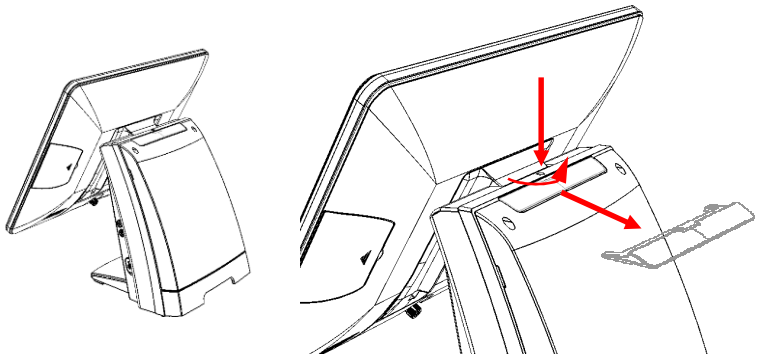
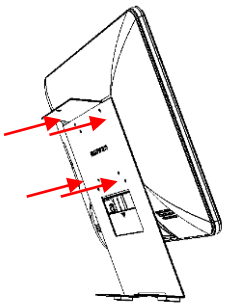
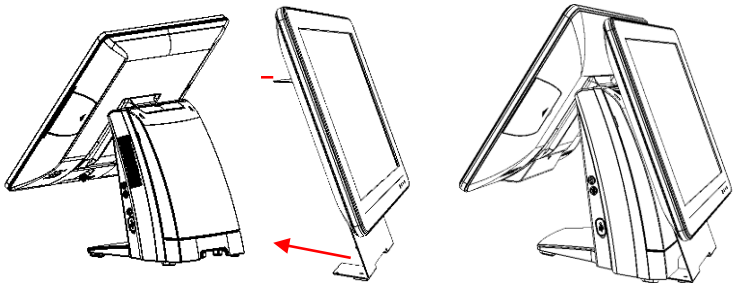
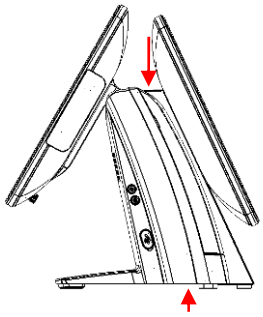
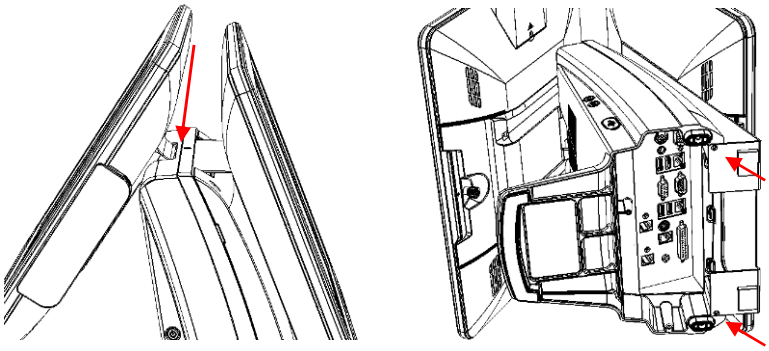
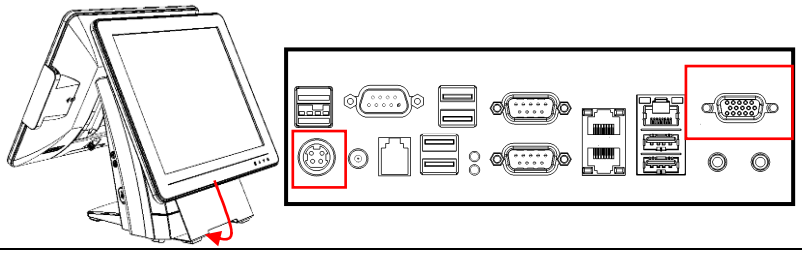
3. **VFD is connected to the COM3 (COM3 has internal power which has been pre-set as 12V power)**

   **** Please note When VFD/LCM is integrated, please remove the device which connects to the external COM3 on Rear IO panel to prevent I/O interrupt.**

4. **Adjust the VFD / LCM angle into proper position.**

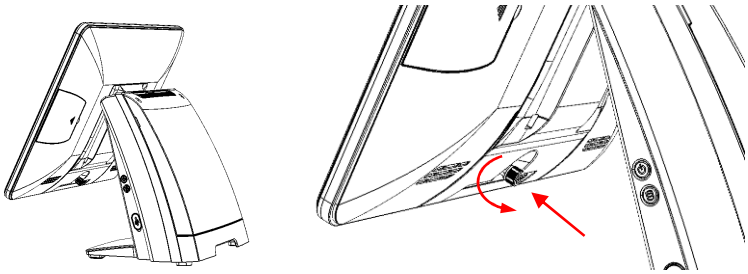


17” / 11.6” 2nd Display Installation

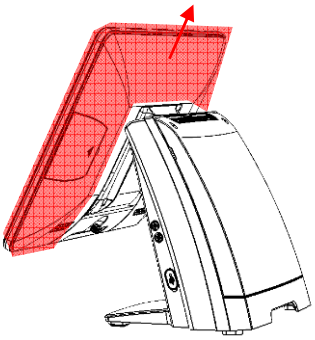
1. Remove the VFD plastic cover	
2. Assemble the 2nd screen with bracket with 4 screws	
3. Assemble the 2nd Screen with bracket to Terminal.	
4. Fasten 3 screws (1 on top, 2 underneath) 	
5. Connect the monitor to AP-3617 by VGA & DC cable	

17” 1st Touch Display Installation & Swapping

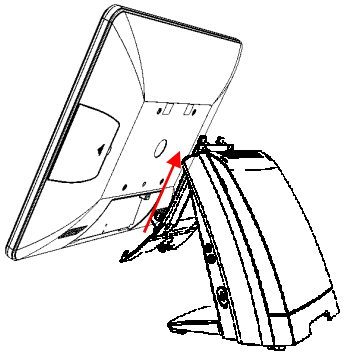
1. **Release 1 thumb screw at the back side of Display**



2. **Lift the Display Module up to disassemble from the main unit of terminal**

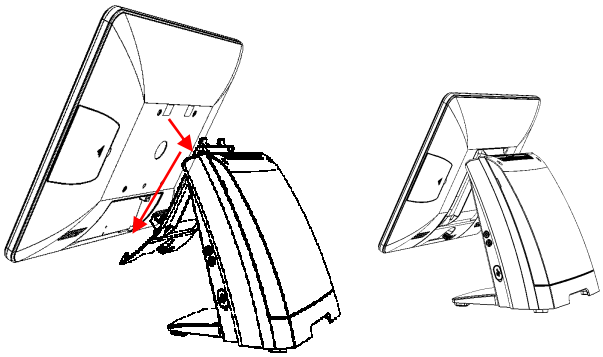


3. **Display and main body units are separated.**



4. **Reverse the process can assembly back the Touch Display Module.**

   **** please make sure the touch display module is firmly connected to the docking slot ****

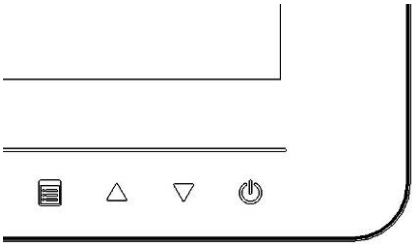


****Note****

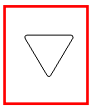
During the process of disassembly and installation, please ensure the terminal is “Power Off” and remove AC cord. “Hot Swap” could casue the internal protection to block touch display functionality.

OSD Function and Adjustment

OSD function and adjustment



Back Light Power (finger touch for 5 seconds)
Back Light Power On – Blue LED indication
Back Light Power Off – Red LED indication
P-CAP Touch re-calibrates during Power Off and On



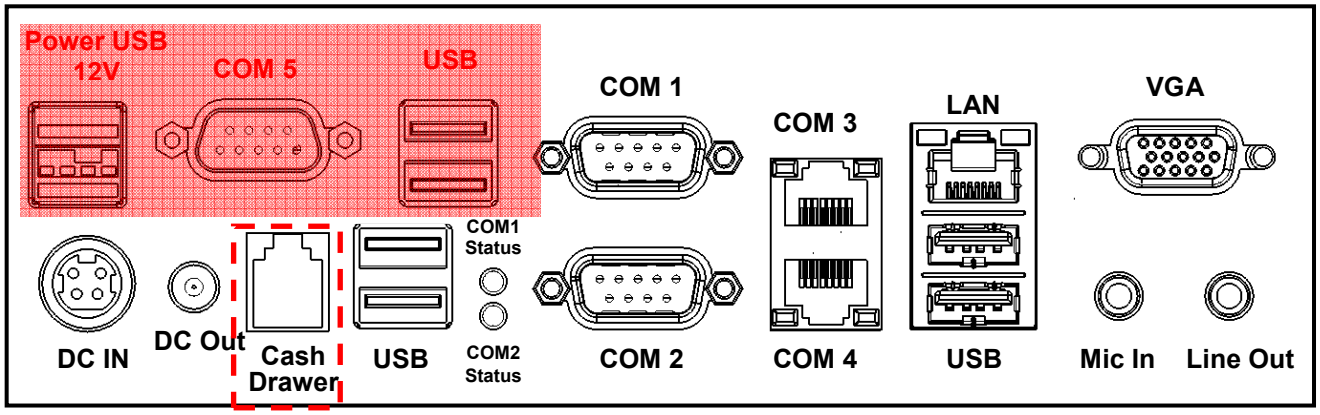
Button Down (finger touch for 2 seconds)
Back Light Dimmer Down

Button Up (finger touch for 2 seconds)
Back Light Dimmer Up

No Function / Reserve Function for AerTouch Monitor

Cash Drawer Installation

Before connecting the cash drawer to the **AP-3617**, please make sure the drive voltage and cable pin assignment of the cash drawer matches the definition of the cash drawer port of **AP-3617**.



Note: If the cash drawer cannot be detected by the system, please refer to trouble shooting.

Up to two cash drawers may be driven from this port. Driving voltage of the solenoid is DC+12V. I/O port 284 is used for drawer operation. A test program is supplied, for Linux and Windows, source code of which is available on request by software developers.

	Value	Description
Byte 1 (0xA0)	0x00	GPIO / 0x01 or DIO / 0x00.
Byte 2-3 (0xA1 ~ 0xA2)	0xA07	Output address.
Byte 4-5 (0xA3 ~ 0xA4)	0xA07	Inpute address.
Byte 6 (0xA5)	0xFD	Open cashdrawer1 value.
Byte 7 (0xA6)	0xFB	Open cashdrawer2 value.
Byte 8 (0xA7)	0xFF	Close cashdrawer value.
Byte 9 (0xA8)	0x01	Cashdrawer status mask.

Chapter 3

Software Installation and Setup

AP-3617 comes with a variety of drivers for different operating systems.

You can download all the necessary drivers and utilities from http://www.fecpos.com.

Or send an e-mail to the Customer Service Department of FEC for further assistance.

Chipset Driver Installation

Intel Chipset Installation Utilities for Windows XP

1. Download drivers from website or insert the Driver CD into your CD ROM Drive.
2. Execute **Setup.exe** and Click **Next**.

Intel® Chipset Device Software
Intel® Chipset Device Software
intel
Welcome to the Setup Program
This setup program will install the Intel® Chipset Device Software onto this computer. It is strongly recommended that you exit all programs before continuing.
< Back
Next >
Cancel

3. Read the License Agreement and click **Yes** & Click **Next** and the drivers for the Intel Chip set will install.

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No

Intel® Chipset Device Software
Intel® Chipset Device Software
Readme File Information
Refer to the Readme file below to view the system requirements and installation information. Press the Page Down key to view the rest of the file.
* Product: Intel(R) Chipset Device Software
* Release: Production Version
* Version: 9.2.0.1030
* Target Products: Intel(R) 6 Series/C200 Series Chipse
* 2nd generation Intel(R) Core(TM) pro
* Date: April 15 2011
< Back
Next >
Cancel

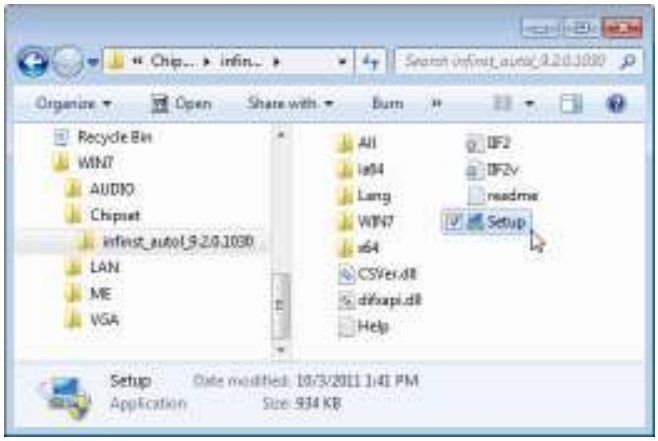
4. Click **Next** and choose “restart computer”, then click to **Finish**.

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Progress
Please wait while the following setup operations are performed:
Next

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Is Complete
You must restart the computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart the computer later.
Click Finish, then remove any installation media from the drives.
Finish

Intel Chipset Installation Utilities for Windows 7

1. Download drivers from website or insert the Driver CD into your CD ROM Drive.
2. Execute **Setup.exe** and Click **Next**.



Intel® Chipset Device Software
Welcome to the Setup Program
This setup program will install the Intel® Chipset Device Software onto this computer. It is strongly recommended that you exit all programs before continuing.
Next >
Cancel

3. Read the License Agreement and click **Yes** & Click **Next** and the drivers for the Intel Chip set will install.

Intel® Chipset Device Software
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No

Intel® Chipset Device Software
Readme File Information
Refer to the Readme file below to view the system requirements and installation information. Press the Page Down key to view the rest of the file.
* Product: Intel(R) Chipset Device Software
* Release: Production Version
* Version: 9.2.0.1030
* Target Products: Intel(R) 6 Series/C200 Series Chipse
* 2nd generation Intel(R) Core(TM) pro
* Date: April 15 2011
< Back
Next >
Cancel

4. Click **Next** and choose restart computer for finishing the Chipset Driver, click to **Finish**.

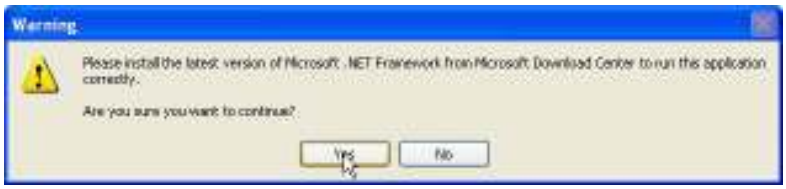
Intel® Chipset Device Software
Setup Progress
Please wait while the following setup operations are performed:
Installing Driver: Intel(R) 6 Series/C200 Series Chipset Family SMBus Controller - 3C22
Version: 9.2.0.1011
Installing Driver: Intel(R) 6 Series/C200 Series Chipset Family USB Enhanced Host Controller -
Version: 9.2.0.1021
Installing Driver: Intel(R) 6 Series/C200 Series Chipset Family USB Enhanced Host Controller -
Version: 9.2.0.1021
Installing Driver: 2nd Generation Intel(R) Core(TM) Processor Family DRAM Controller - 0100
Version: 9.2.0.1026
Next

Intel® Chipset Device Software
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish

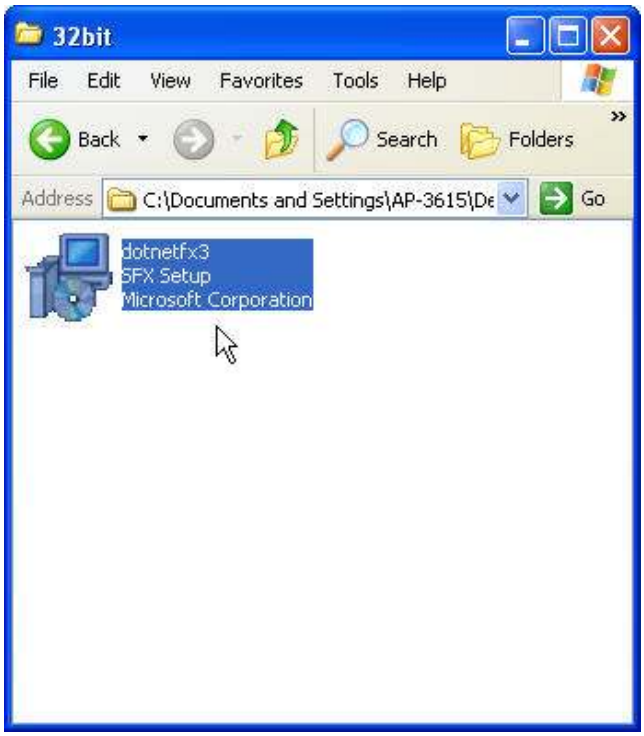
.Net Framwork 3.0 Tool Installation

.Net Framework 3.0 Tool for Windows XP

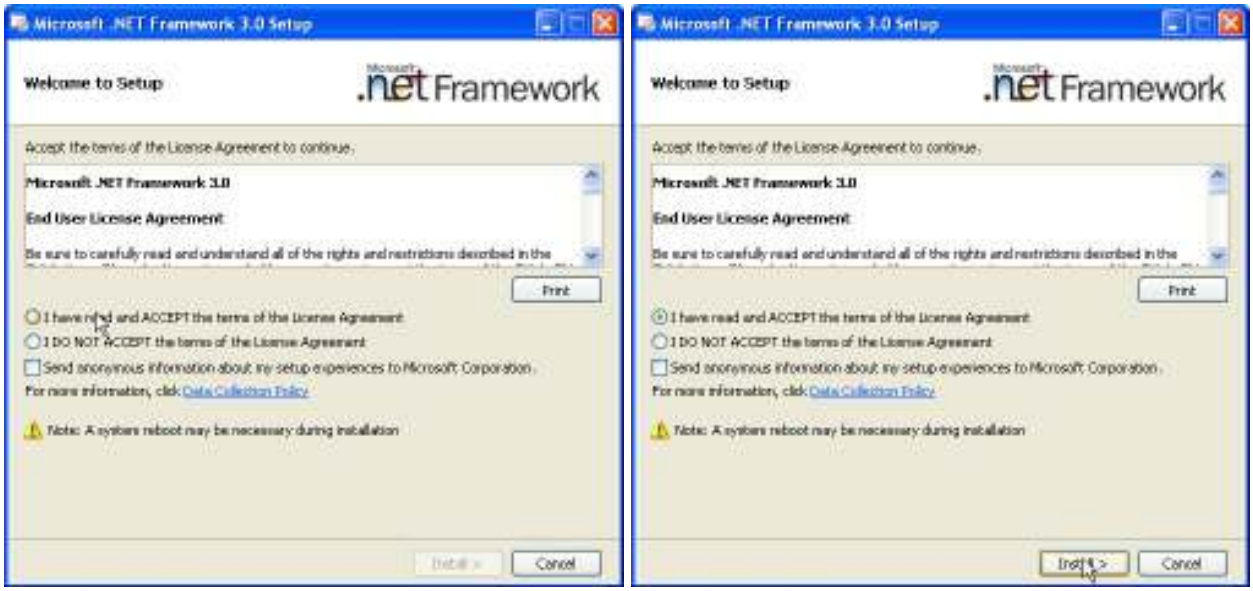
1. Download drivers from FEC website or insert the Driver CD into your CD ROM Drive.
2. Double click **Setup.exe**, and Click **Next** to start tool installation


Warning
Please install the latest version of Microsoft .NET Framework from Microsoft Download Center to run this application correctly.
Are you sure you want to continue?
Yes
No

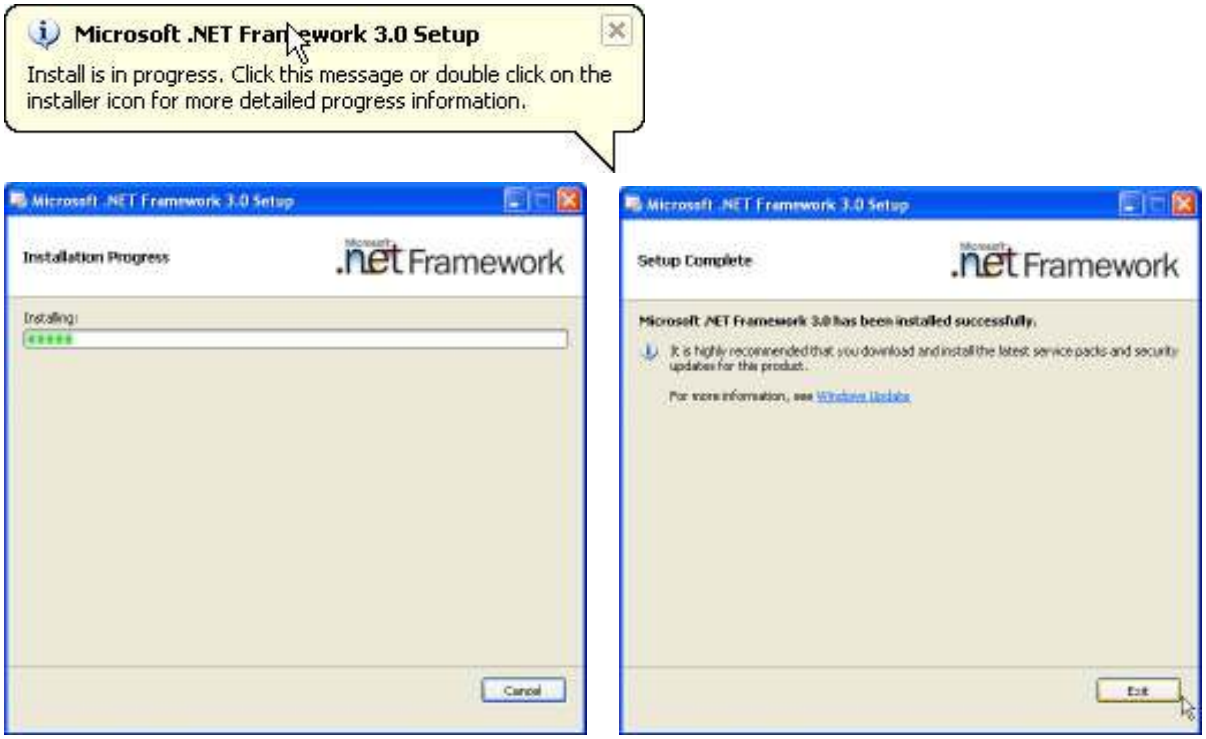
3. Execute dontnetfx3 for further **setup**



4. choose **I have read and ACCEPT the terms of the license Agreement** and click **Install** for the following steps


Microsoft .NET Framework 3.0 Setup
Welcome to Setup
.net Framework
Accept the terms of the License Agreement to continue.
Microsoft .NET Framework 3.0
End User License Agreement
Print
I have read and ACCEPT the terms of the License Agreement
I DO NOT ACCEPT the terms of the License Agreement
Send anonymous information about my setup experiences to Microsoft Corporation.
For more information, click Data Collection Policy
Note: A system reboot may be necessary during installation
Install >
Cancel

5. Click the message pop out to check for the detail process. Finally, click **Exit** to finish the installation.


Microsoft .NET Framework 3.0 Setup
Install is in progress. Click this message or double click on the installer icon for more detailed progress information.
Installation Progress
.net Framework
Installing:
Cancel
Setup Complete
Microsoft .NET Framework 3.0 has been installed successfully.
It is highly recommended that you download and install the latest service packs and security updates for this product.
For more information, see Windows Update
Exit

VGA Driver Installation

VGA driver installation for Windows XP

1. Download drivers from website or insert the CD into your CD ROM Drive.
2. Execute **Steup.exe**

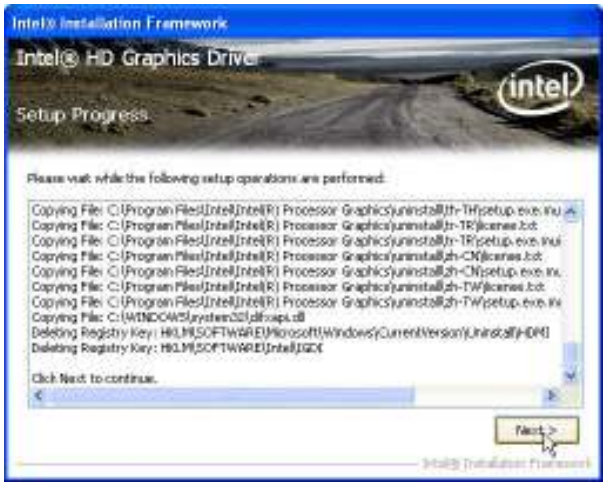
3. Select **Next** and click **Yes** of License Agreement Page.

Intel® Installation Framework
Intel® HD Graphics Drive
Welcome to the Setup Program
This setup program will install the following components:
- Intel® HD Graphics Driver
It is strongly recommended that you exit all programs before continuing. Click Next to continue.
< Back
Next >
Cancel

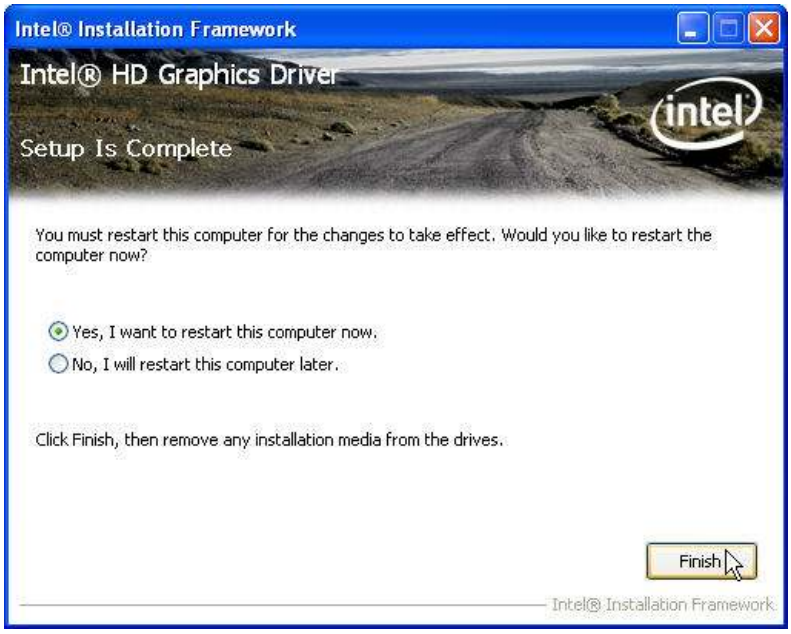
Intel® Installation Framework
Intel® HD Graphics Drive
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), the complete LICENSE AGREEMENT applies;
* If you are an End-User, then only Exhibit A, the INTEL SOFTWARE LICENSE AGREEMENT,
< Back
Yes
No

4. Select **Next** to continue driver installation.

Intel® Installation Framework
Intel® HD Graphics Drive
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
Production Version Releases
Microsoft Windows* XP
Package: 141619
Graphics: 6.14.10.5387
Display Audio Driver : 5.14.00.3074
< Back
Next >
Cancel


Intel® Installation Framework
Intel® HD Graphics Drive
Setup Progress
Please wait while the following setup operations are performed:
Click Next to continue.
Next >

5. Finally, **Finish** and **Restart** the system

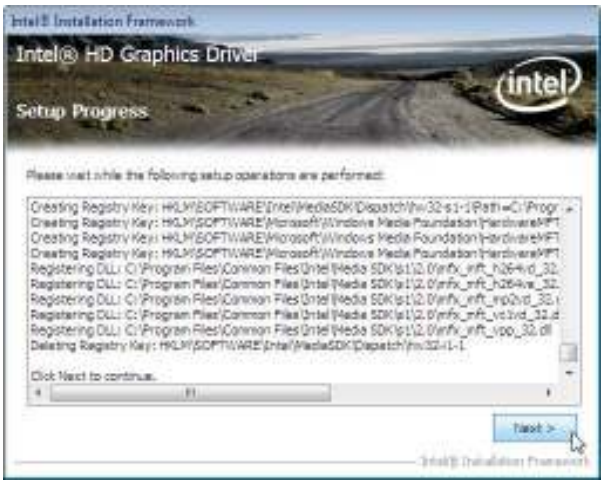

Intel® Installation Framework
Intel® HD Graphics Driver
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

VGA driver installation for Windows 7

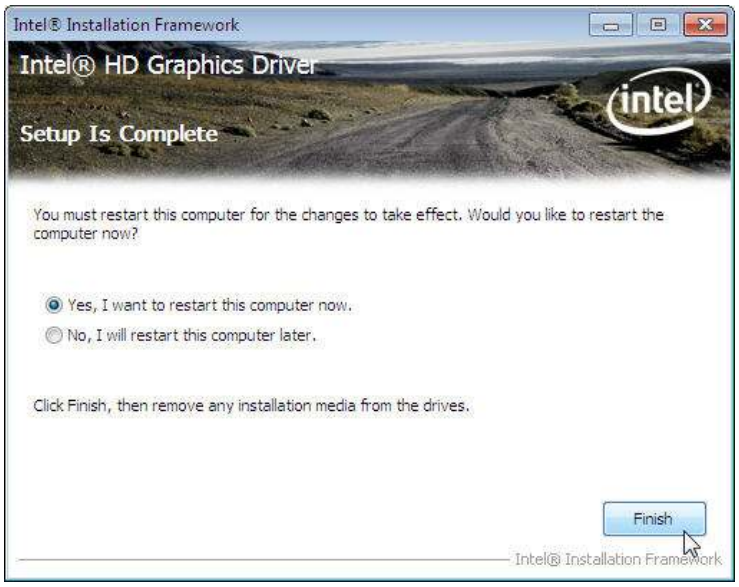
1. Download drivers from website or insert the CD into your CD ROM Drive.
2. Execute **Steup.exe** and select **Next**

3. Click **Yes** of License Agreement Page.

4. Select **Next** to continue driver installation.



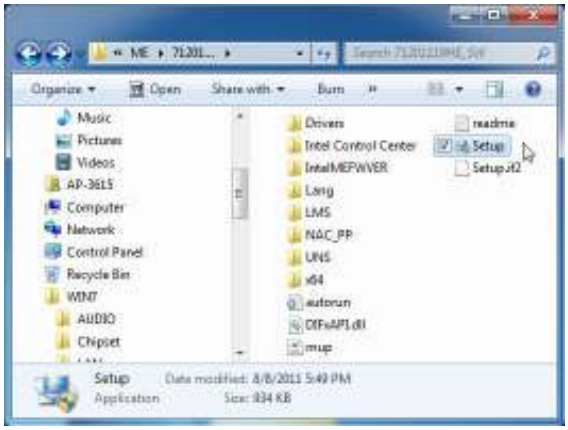
5. Finally, **Finish** and **Restart** the system


Intel® Installation Framework
Intel® HD Graphics Driver
Setup Is Complete
intel
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

Intel Management Engine Components Driver Installation

VGA driver installation for Windows 7

1. Download drivers from website or insert the CD into your CD ROM Drive.
2. Execute **Steup.exe**



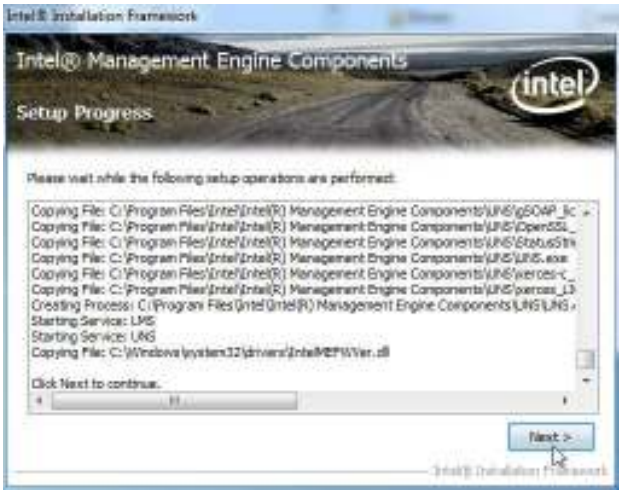
3. Select **Next** and click **Yes** of License Agreement Page.

Intel® Management Engine Components
Welcome to the Setup Program
This setup program will install the Intel® Management Engine Components.
It is strongly recommended that you exit all programs before continuing. Click Next to continue.
< Back
Next >
Cancel

Intel® Management Engine Components
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
* If you are an End-User, then only Exhibit A, the INTEL SOFTWARE LICENSE AGREEMENT,
< Back
Yes
No

4. Select **Next** to continue driver installation.

Intel® Management Engine Components
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
* Intel(R) Management Engine software components Readme
* Copyright (c) 2005-2010 Intel Corporation.
The Intel(R) Management Engine software components that need to be installed depend on the system's specific hardware and firmware features.
The installer detects the system's capabilities and installs the relevant drivers and applications.
For more information please refer to the Intel(R) ME SW Installation Guide.
< Back
Next >
Cancel


Intel® Management Engine Components
Setup Progress
Please wait while the following setup operations are performed:
Creating Process: C:\Program Files\Intel\Intel(R) Management Engine Components\UNS\UNS
Starting Service: LMS
Starting Service: UNS
Click Next to continue.
Next >

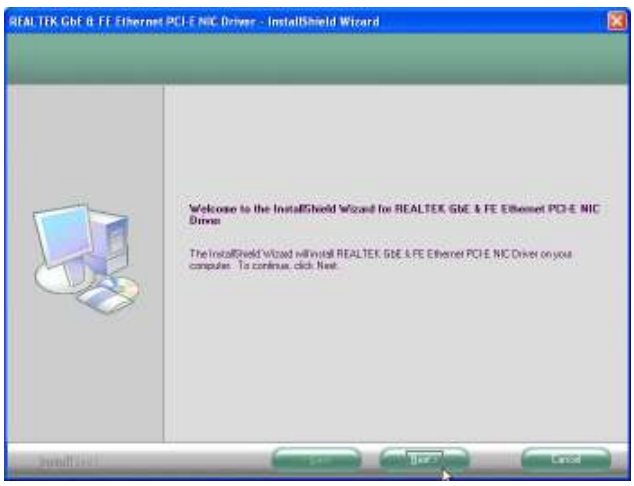
5. Finally, **Finish** and **Restart** the system

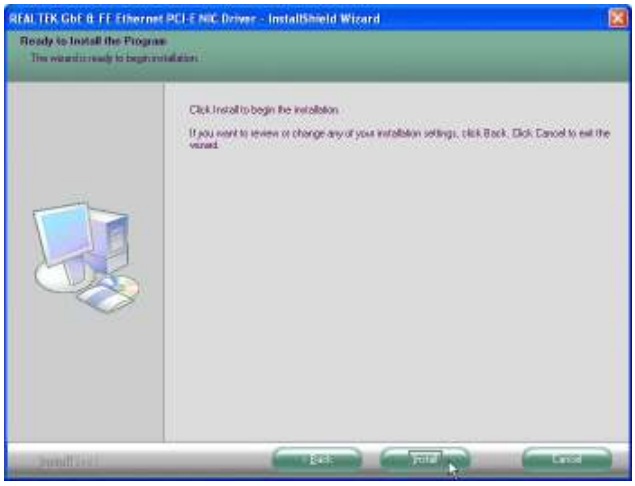
LAN Driver Installation

Realtek RT8111E LAN Driver Installation for Windows XP

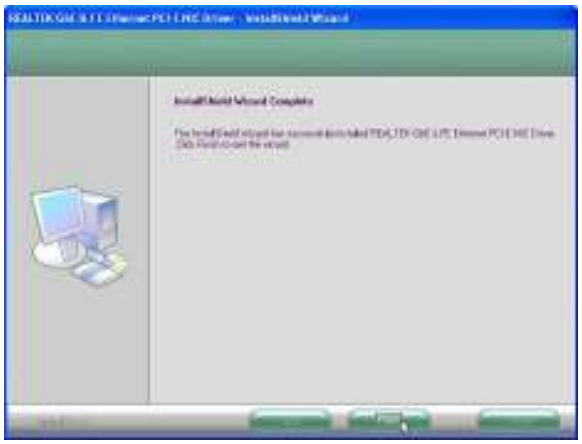
1. Download drivers from website or insert the CD into your CD ROM Drive.
2. Execute **Setup.exe**.

3. Click **Next** to continue


REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Welcome to the InstallShield Wizard for REALTEK GbE & FE Ethernet PCI-E NIC Driver

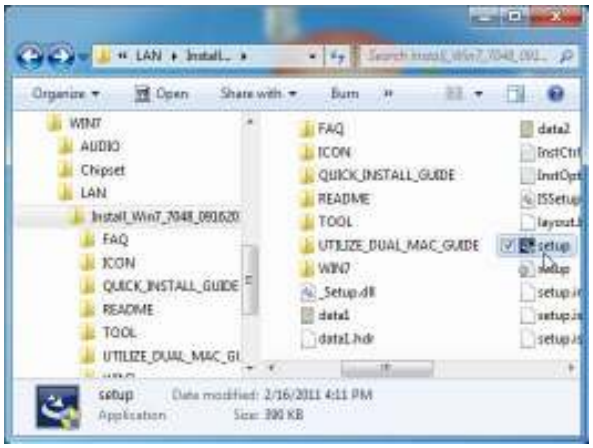


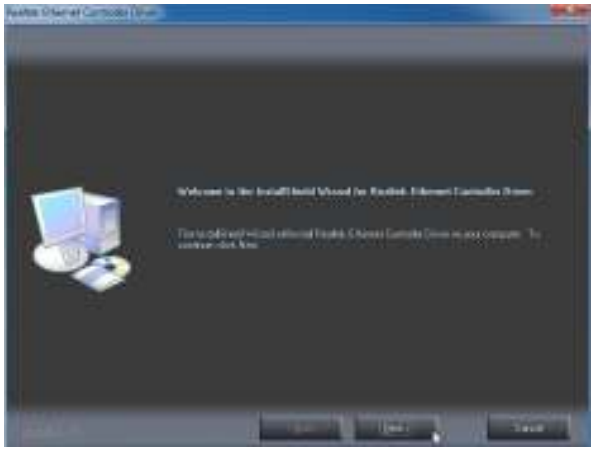
4. Click **Finish** to complete the installation procedure.



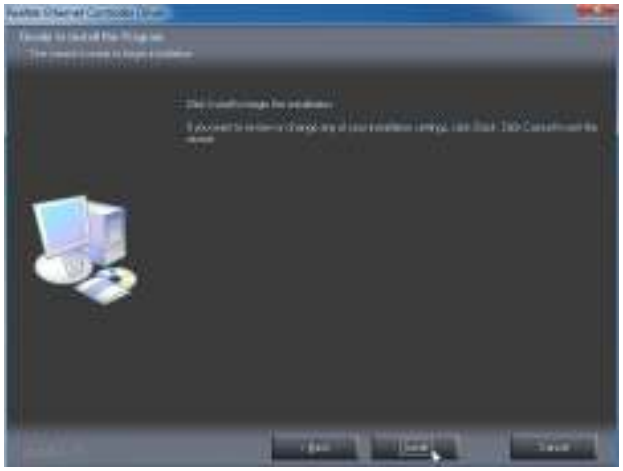
Realtek RT8111E LAN Driver Installation for Windows 7

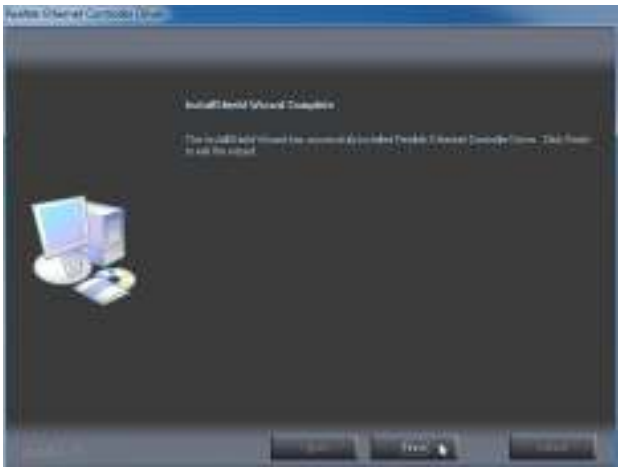
1. Download drivers from website or insert the CD into your CD ROM Drive.
2. Execute **Setup.exe**.





3. Click **Next** to continue and **Finish** to complete the installation procedure.

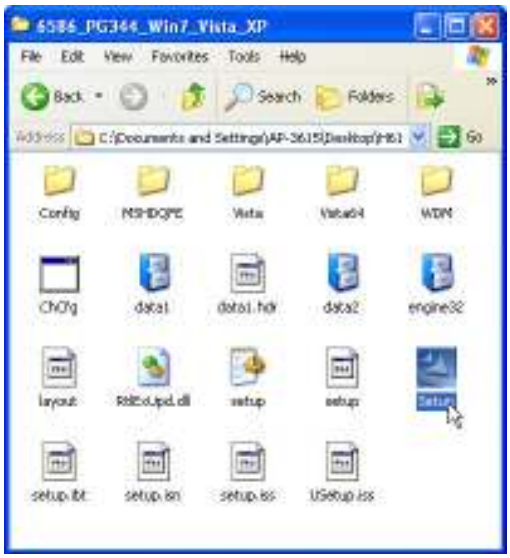


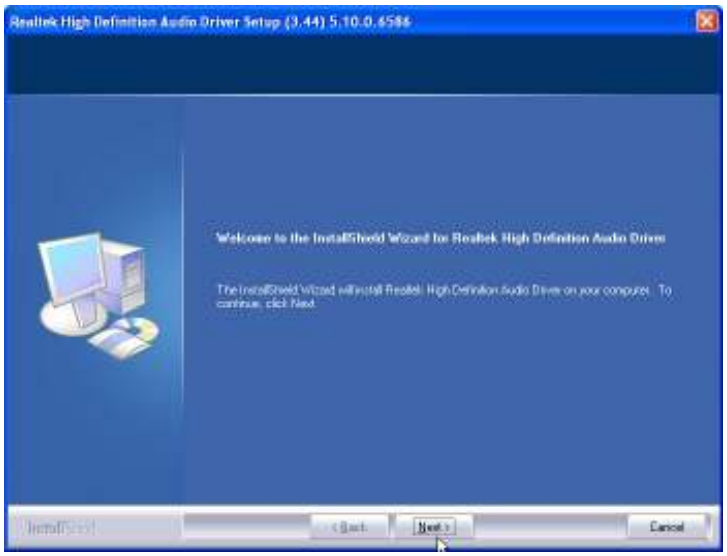


Audio Driver Installation

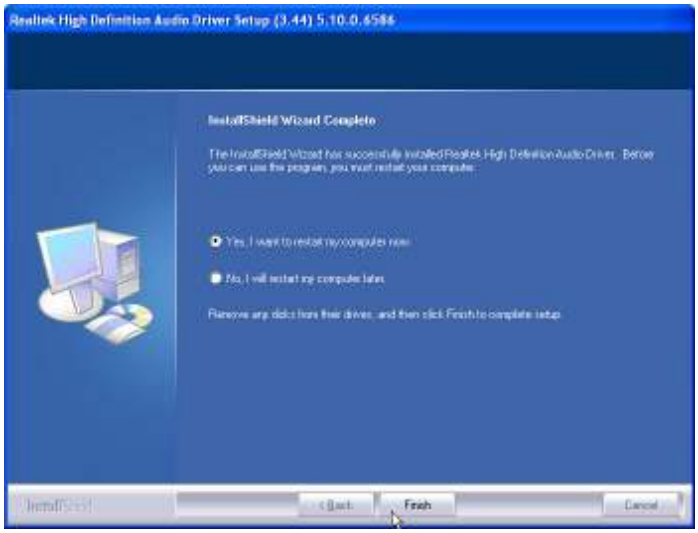
Realtek ALC887 Audio Driver Installation for Windows XP & Windows 7

1. Download drivers from website or insert the CD into your CD ROM Drive.
2. Double click **Setup.exe**, and Click **Next** to continue




Realtek High Definition Audio Driver Setup (3.44) 5.10.0.6586
Welcome to the InstallShield Wizard for Realtek High Definition Audio Driver
The InstallShield Wizard will install Realtek High Definition Audio Driver on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

3. Click **Finish** and restart the system.


Realtek High Definition Audio Driver Setup (3.44) 5.10.0.6586
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Realtek High Definition Audio Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
InstallShield
< Back
Finish
Cancel

FEC P-Capacitive/ Resistive Touch Utility (EETI Controller)

FEC Projective – Capacitive Touch Utility Introduces:

1. **Mode of FEC Capacitive Touch Panel and default settings**
2. **EETI TouchKit Tools Installation**

Mode of FEC P-Capacitive/ Resistive Touch Panel

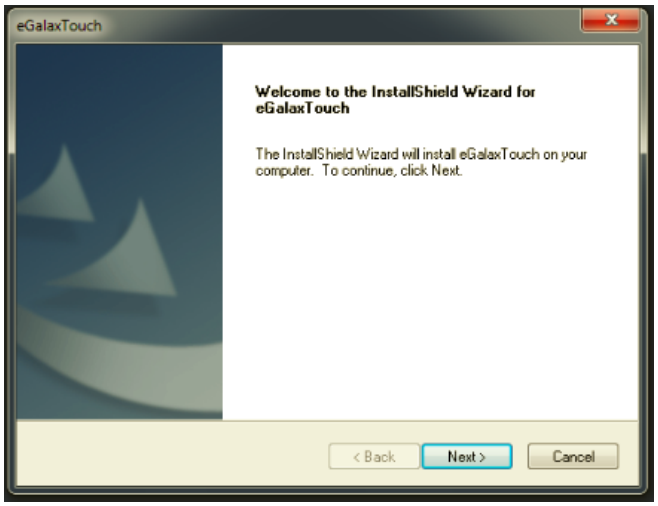
	Win XP, POS Ready 2009	Win7, POS Ready7
Mouse Mode	Yes Driver Needed	Yes Driver Needed
Touch Mode	N/A	Yes No Driver Needed

EETI TouchKit Tools Installation

EETI TouchKit Tools Installation for Windows XP

1. Down load Touch Kit for WinXP from FEC website.
2. Execute **Setup.exe**

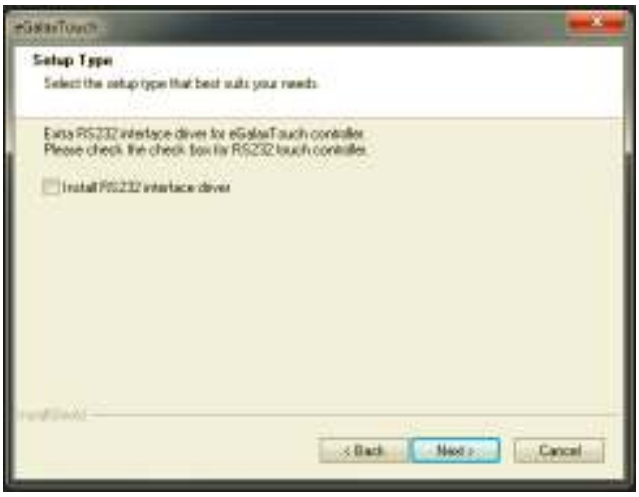
3. Click **Next**


eGalaxTouch
Welcome to the InstallShield Wizard for eGalaxTouch
The InstallShield Wizard will install eGalaxTouch on your computer. To continue, click Next.
< Back
Next >
Cancel

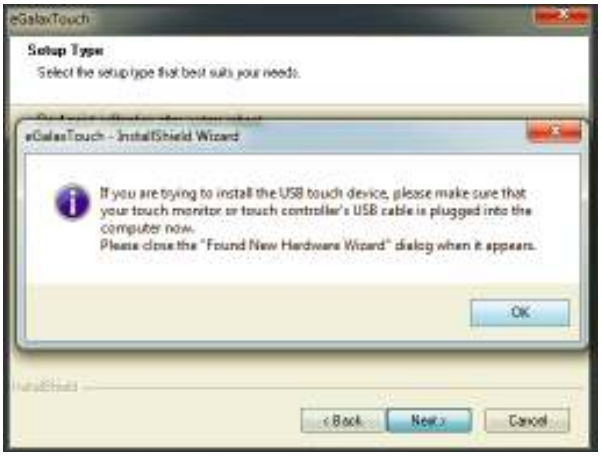
4. Click **Next**

eGalaxTouch
License Agreement
Please read the following license agreement carefully.
Declaration and Disclaimer
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
< Back
Next >
Cancel

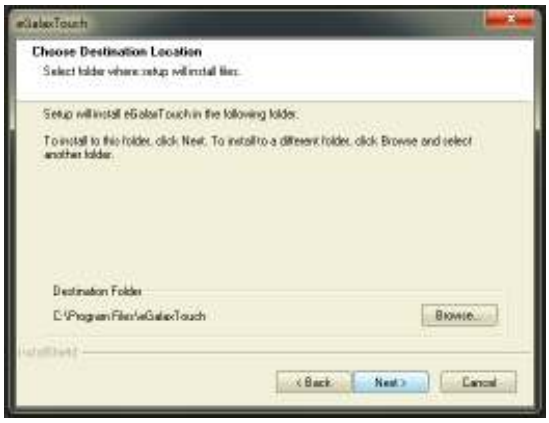
5. Click **Next and** do not chosse RS232


eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
Extra RS232 interface driver for eGalaxTouch controller.
Please check the check box for RS232 touch controller.
Install RS232 interface driver
< Back
Next >
Cancel

6. Slect None


eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
eGalaxTouch - InstallShield Wizard
If you are trying to install the USB touch device, please make sure that your touch monitor or touch controller's USB cable is plugged into the computer now.
Please close the "Found New Hardware Wizard" dialog when it appears.
OK
< Back
Next >
Cancel

7. **Click** Next **for further installation process**



8. Slect No

Question
The eGalaxTouch driver has been installed, before operating touch function, please do 4 point calibration.
Would you do 4 point calibration now ?
Yes
No

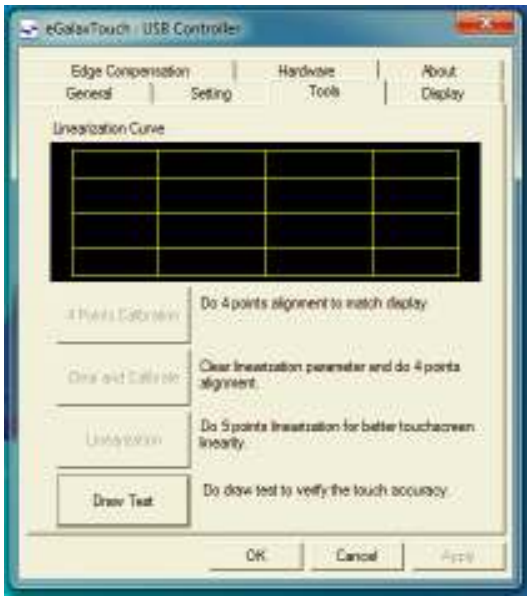
TouchKit Control Panel for P-Capacitive/ Resistive Touch

This section explains the different options in the TouchKit control Panel.

Tools tab

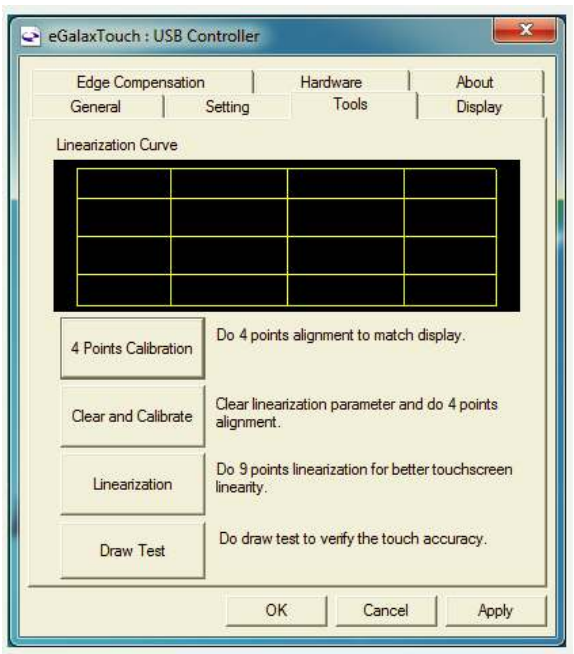
P-Capacitive

Do not need to calibrate the touch screen with the **4 Points.**



Resistive

The tools tab allows you to below calibrate the touch screen with the **4 Points.**



:

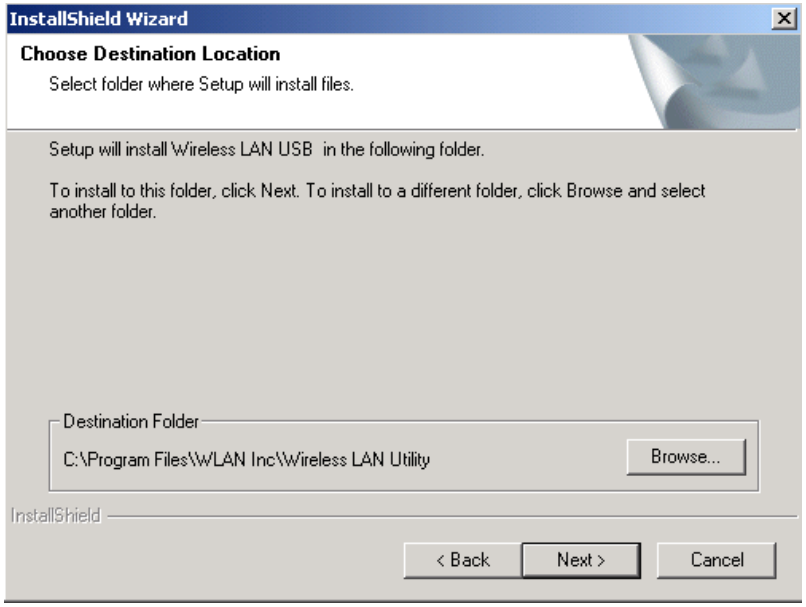
Wireless LAN Driver Installation

Wireless LAN Driver Installation for all Windows Operating Systems (Optional)

1. Download drivers from website or insert the CD into your CD ROM Drive.
2. Run **Setup.EXE**

InstallShield Wizard
Welcome to the InstallShield Wizard for Wireless LAN USB
The InstallShield® Wizard will install Wireless LAN USB on your computer. To continue, click Next.
< Back
Next >
Cancel

3. Click **Next**


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install Wireless LAN USB in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\WLAN Inc\Wireless LAN Utility
Browse...
InstallShield
< Back
Next >
Cancel

Chapter 4

Specifications

AP-3617 Specifications

Aer POS		AP-3617 Performance	
Main Specifications	Chipset	Intel Sandy Bridge H-61	
	Processor	Intel Dual Core Celeron G540 2.5G Intel i3 2120 3.3G Intel i5 2400S 2.5G	
	Memory	DDR3 Standard 2GB, Max 8GB	
	Power Supply	12V 150W	
	Thermal	Smart Fan	
	Storage Device	1 x 2.5” SATA Driver Bay	
	Speakers	Internal Speaker 2W x 2	
Touch Display	Display Design	17” True Flat (Ultra Slim) Bezel Free	
	Touch	Projective-Capacitive (Tempered Glass)	5W Resistive
	Backlight	LED	LED
	Brightness	250 nits / 350 nits	
	Backlight MTBF	30 K hours / 50 K hours	
Peripherals & Optionals	MSR	Track 1/2/3 , USB interface	
	Finger Print Receiver	Optical Finger Print Receiver, USB interface	
	RFID Reader	13.56M Hz RFID reader , USB interface	
	I - Button Reader	USB interface	
	Optional COM Port	Additional Stand USBx1; COM 5; 12V Power USB x 1	
	Wireless LAN	802.11.b.g.n wireless LAN , USB interface	
	VFD	(Integration Type) 20x2 (9mm) Character Mode	
	LCM	(Integration Type) 20 x 2 Character Mode (Integration Type) 240x64 Graphic Mode	
	2nd Display	(Integration Type) 11.6” / 17” 2nd Monitor	

Chapter 5

Troubleshooting

Please note that the following troubleshooting guide is designed for engineer who has strong computer hardware knowledge or Engineers and Maintenance.

Touch Panel Does Not Work

A) Check “Touch Display Module” is connected well with terminal.

B) Check HID USB touch device is detected by OS.

C) (Resistive Touch) Check if the EETI driver or the TouchKit driver has been properly installed. Or try to re-install again (Please refer to the EETI driver and touch kit installation).

D) (Capacitive Touch) Check if the FEC-AUO Capacitive touch is automatically detected by Windows 7, or properly installed the touch driver in Windows XP.

E) (Capacitive Touch) Please do not keep the capacitive touch in high humidity and condensing environment, such as out door or bathroom, where might affect the touch performance or might need to be calibrate more frequently.

F) Check if the cable connects well between touch panels and touch controller

G) (Capacitive Touch Calibration) Reboot the system, and the Capacitive Touch can be calibrated automatically.

OSD Panel Cannot Work Precisely

A) Please touch each single OSD button for more than two seconds in order to trigger the function.

B) Make sure the finger is not touching more than one button each time.

Cannot Detect SATA Storage HDD/SSD

A) Make sure storage device is well connected in the SATA Connector.

B) HDD FFC cable is not connected properly to the main board or it could be defective.

C) Check CMOS setup, set SATA HDD to Auto Detect.

D) On-board SATA port could be defective.

LAN Is Not Functioning Properly

A) Check if the LAN driver is installed properly.

B) Check if there are any IRQ conflicts.

C) Check if the RJ45 cable is properly connected.

D) The on-board LAN chip could be defective.

COM1 ~ COM5 Are Not Functioning Properly

A) Check if the I/O ports are enabled in the CMOS setup.

B) Check if there are any IRQ conflicts.

C) The main board or I/O board could be defective.

D) (Reminder) The COM3 is shared by the read I/O and VFD, if you connector the VFD, please remove the device which is connected with external COM3.

Cash Drawer Port Is Not Functioning Properly

A) Make sure the pin assignment matches between the cash drawer and the RJ11 cash drawer port.

B) Verify if the digit I/O port address and bit are correct.

C) The main board could be defective.

Appendix A:

Smart Management Tool User Guide

Smart Management Tool is FEC latest hardware management engine built in AerPOS & BP-500. With this tool, user could easily access the data inside the system that could user to identify the status and error during operation.

1. Move this Smart Management.exe to Desktop or any preferred location in your system (Windows XP & Windows 7 only)
2. Double click the .exe file to activate Smart Management as the following picture.

3. Press the Smart Management button aside the AP-3617 for 5 seconds to enter the **Terminal Status**. (This button is just above the external USB connector, Please make sure you did not press the Power Button or HDD LED)

Please refer to the following definition table for the information showed on the Terminal Status

Item	Description
MB Version	Shows the M/B version
BIOS Version	Shows the BIOS version of the M/B
IO Version	Shows the firmware version on the I/O board
Display Version	Shows the firmware version on the Display board (AerPOS only)
Operation Service Hours	Shows the time this system has been powered up
Stand-by Service Hours	Shows the time this system has been connected to A/C input
Abnormal On/Off Count	Shows the times this system has been force disconnect with A/C input
ON/OFF Total	Shows the times this system has been power on & off normally
System Operation Hours	Shows the latest time the system has been operated
Display Module Plug in Time	Shows the times the display module has been re-plugged (AerPOS only)
Total Display Module Standby Hours	Show the time the display module has been connected with the system & the system has been connected to A/C input (AerPOS only)
Total Back Light Hour	Show the time the backlight has been used (AerPOS only)

Each data would be recorded after the system is shutdown normally, for any incorrect operation or force shutdown, only Abnormal On/Off Count & ON/OFF Total will be recorded, the rest data will missed.

4. User could monitor the Thermal & Fan Status inside the system by clicking the icon Thermal.

5. User could monitor the power status on the M/B by clicking the icon POWER STATUS.

FEC
Smart Management
smart
POWER STATUS
CPU Vcore Status Current : 1.1V
CPU Vcore Status Maximum : 1.2V
CPU Vcore Status Minimum : 0.7V
CPU Vcore Status Average : 1.0V
MB Battery Current Voltage : 2.9V
MB Battery Maximum Voltage : 2.9V
MB Battery Minimum Voltage : 2.9V
MB Battery Average Voltage : 2.9V
12V Voltage Status Current : 12.0V
12V Voltage Status Maximum : 12.0V
12V Voltage Status Minimum : 11.9V
12V Voltage Status Average : 12.0V
DC In-Voltage Current : 12.0V
DC In-Voltage Maximum : 12.1V
DC In-Voltage Minimum : 12.0V
DC In-Voltage Average : 12.0V
DC In-Current Current : 4.0A
DC In-Current Maximum : 5.3A
DC In-Current Minimum : 1.3A
DC In-Current Average : 4.0A
DC In-Power Consumption Current : 45.4W
DC In-Power Consumption Maximum : 58.8W
DC In-Power Consumption Minimum : 15.6W
DC In-Power Consumption Average : 46.2W
FEC
TERMINAL
THERMAL
POWER STATUS
ADVANCED
EXIT

Item	Description
CPU Vcore Status	Shows CPU Vcore status
MB Battery Voltage	Shows the Voltage of M/B battery (If the data of current is too low, please contact FEC Service Department for battery replacement)
12V Voltage Status	Shows the voltage of 12V on the M/B
DC In-Voltage	Shows the voltage of DC-IN (If the data is too low, please check the power adaptor)
DC In-Current	Shows the current of 12V DC-IN(If the data is too low, please check the power adaptor)
DC in-Power Consumption	Shows the power consumption of AP-3615 or BP-500

6. In Advanced mode, there are 3 settings could be accessed by the user.
a. COM Port Voltage Setting: Please ensure this setting must be operated by the engineer who with strong knowledge of AerPOS & BP-500 and its devices. Inappropriate operation might cause the damage of the powered devices.
b. OSD Enable or Disable (AerPOS only)
c. Backlight Brightness: Display only, the adjustment must be through OSD

7. Following is the example to adjust the setting of COM1, COM2 & COM3 from RI mode to 5V enabled.
a. Click COM1 5V, COM2 5V, COM3 5V and COM Port Set

b. Apply the change by click the icon

c. Double confirm to apply this change

d. Shutdown the system and proceed the cold reboot

8. User could enable/disable the OSD function by select following options. After apply the setting, **A cold reboot is required.**